

Claims:

- 1           1.     A system for user behavior based ranking of a document, comprising:  
2                 means for determining a feature vector associated with a document, the feature vector  
3     comprising weights for certain terms that appear in the document; and  
4                 means for modifying the feature vector for the document based on user actions during a  
5     search session so that the document is more highly ranked in response to the user actions.
- 6           2.     The system of Claim 1 further comprising means for collecting user actions in  
7     response to a list of documents produced in response to a query wherein the user actions include  
8     selecting a document from the list of documents.
- 9           3.     The system of Claim 2 further comprises means for adjusting the weights of the  
10    terms in the feature vector that match terms in a query that produced the list of documents so that  
11    the ranking of the document is higher in response to the adjustment of the weights.
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- 13           4.     A method for user behavior based ranking of a document, comprising:  
14                 determining a feature vector associated with a document, the feature vector comprising  
15    weights for one or more terms that appear in the document; and  
16                 modifying the feature vector for the document based on user actions during a query of the  
17    document so that the document is more highly ranked in response to the user actions.
- 18           5.     The method of Claim 4 further comprising means for collecting user actions in  
19    response to a list of documents produced in response to a query wherein the user actions include  
20    selecting a document from the list of documents.

21           6.     The method of Claim 5, wherein the modifying means further comprises means  
22 for adjusting the frequency values of the terms in the feature vector that match terms in a query  
23 that produced the list of documents so that the ranking of the document is higher in response to  
24 the adjustment of the frequency values.

25           7.     A system for user behavior based searching of a document based on a query  
26 having one or more query terms, comprising:

27                 means for determining a feature vector associated with a document, the feature vector  
28 comprising weights for certain terms that appear in the document;

29                 means for modifying the feature vector for the document based on user actions during a  
30 query of the document so that the document is more highly ranked in response to the user  
31 actions; and

32                 means for returning the same document to another user with the same query at a higher  
33 ranking due to the modified feature vector.

34           8.     The system of Claim 7 further comprising means for collecting user actions in  
35 response to a list of documents produced in response to a query wherein the user actions include  
36 selecting a document from the list of documents.

37           9.     The system of Claim 8, wherein the modifying means further comprises means for  
38 adjusting the frequency values of the terms in the feature vector that match terms in a query that  
39 produced the list of documents so that the ranking of the document is higher in response to the  
40 adjustment of the frequency values.

42 10. A method for user behavior based searching of a document based on a query

43 having one or more query terms, comprising:

44 determining a feature vector associated with a document, the feature vector comprising

45 frequency values for one or more terms that appear in the document;

46 modifying the feature vector for the document based on user actions during a query of the

47 document so that the document is more highly ranked in response to the user actions; and

48 returning the same document to another user with the same query at a higher ranking due

49 to the modified feature vector.

50 11. The method of Claim 10 further comprising means for collecting user actions in

51 response to a list of documents produced in response to a query wherein the user actions include

52 selecting a document from the list of documents.

53 12. The method of Claim 11, wherein the modifying means further comprises means

54 for adjusting the frequency values of the terms in the feature vector that match terms in a query

55 that produced the list of documents so that the ranking of the document is higher in response to

56 the adjustment of the frequency values.